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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,390	07/30/2003	Mark D. Chuey	LEAR 04114 PUS / 04114	8352

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EXAMINER	
DOAN, KIET M	

ART UNIT	PAPER NUMBER
2683	

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/630,390	CHUEY, MARK D.	
	Examiner	Art Unit	
	Kiet Doan	2683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 July 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-30* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-30* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *30 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Farris et al. (Patent No. 6,025,785).

Consider **claim 1,** Farris teaches a system for wirelessly activating an appliance, the appliance responding to one of a plurality of transmission schemes, the system comprising: a transmitter operative to transmit a radio frequency activation signal based on any of the plurality of transmission schemes; at least one user activation input, each activation input identifying a wireless channel (C3, L24-49, C4, L14-19, Fig.1, No.30, No.31 as wireless activating); a user programming input; memory holding data describing a plurality of rolling code transmission schemes (Fig.1, No.30 as rolling code transmission) and a plurality of fixed code transmission schemes (Fig.1, No.31 as fixed code transmission); and control logic in communication with the transmitter, the at least one user activation input, the user programming input and the memory, the control logic implementing a rolling code programming mode, a fixed code programming mode and an operating mode (C3, L45-49, C5, L5-15, C9, L30-61);

the control logic in rolling code programming mode generating and transmitting a sequence of rolling code activation signals, each rolling code activation signal in the sequence of rolling code activation signals based on a different one of the plurality of rolling code transmission schemes, until user input indicates a successful rolling code transmission scheme, the control logic storing data specifying the successful rolling code transmission scheme associated with one of the at least one activation inputs (C4, L19-67, C5, L15-39, C6, L5-48, teach rolling code in program mode and transmitting);

the control logic in fixed code programming mode receiving a fixed code from the user programming input then generating and transmitting a sequence of fixed code activation signals, each fixed code activation signal in the sequence of fixed code activation signals based on one of the plurality of fixed code transmission schemes and each transmitting the received fixed code, until user input indicates a successful fixed code transmission scheme, the control logic storing the fixed code and data specifying the successful fixed code transmission scheme associated with one of the at least one activation inputs (C6, L49-61, C7, L5-14, C8, L26-40 teach fixed code programming mode and transmitting);

the control logic in operating mode receiving an activation input, retrieving data associated with the received activation input, and transmitting an activation signal based on the retrieved data (C4, L49-67, Fig.2, No.84 teach the control logic would read on microcontroller)

Consider **claim 2**, Farris teaches the system wherein the at least one activation

input is a plurality of activation inputs (C3, L26-29, Fig.1, No.34 Illustrate external control pad means as at least one activation input is a plurality of activation inputs).

Consider **claim 3**, Farris teaches the system wherein each of the plurality of activation inputs comprises a switch and the user programming input comprises the same plurality of switches (Fig.1, Illustrate plurality of activation such as No.30, No.31 and No.34, C8, L26-39 teach programming input).

Consider **claims 4- 5 and 17-18**, Farris teaches the system wherein the fixed code is parallel/serial received (C4, L49-67).

Consider **claims 6 and 7**, Farris teaches the system wherein the control logic pauses for user input after transmission of at least one fixed/rolling code activation signal in the sequence of fixed/rolling code activation signals (C13, L1-47).

Consider **claims 8 and 19**, Farris teaches the system wherein membership in the transmitted sequence of fixed code signals is based on the number of bits in the received fixed code (C13, L49-76).

Consider **claims 9-10 and 20-21**, Farris teaches the system wherein the sequence of fixed code signals comprises at least one pair of fixed code activation signals based on the same fixed code transmission scheme, one fixed code activation

signal in each pair based on a reversal/inverse of the fixed code (C6, L49-67, C7, L1-14, C14, L26-65).

Consider **claim 11**, Farris teaches the system wherein at least one of the sequence of fixed code signals and the sequence of rolling code signals is ordered based on a popularity of schemes, thereby reducing an average latency time until user input indicates a successful scheme (C15, L45-67, C16, L1-9).

Consider **claims 12 and 22**, Farris teaches the system further comprising a data port for receiving the data describing the plurality of rolling code transmission schemes and the plurality of fixed code transmission schemes (C3, L19-30, Fig.1, No.12, Illustrate head unit means as data port for receiving rolling/fixed code).

Consider **claims 13 and 23**, Farris teaches the system further comprising means for modifying the data describing the plurality of rolling code transmission schemes and the plurality of fixed code transmission schemes (C5, L5-65).

Consider **claims 14 and 14**, Farris teaches the system further comprising a vehicle bus in communication with the control logic (C3, L45-49, C4, L49-51).

Consider **claim 15**, Farris teaches a method of activating an appliance, the appliance controlled by a radio frequency activation signal (C3, L24-49, Fig.1, No.30,

No.31, Illustrate appliance controlled by a radio frequency), the method comprising: if a user indicates that the appliance is activated by a rolling code activation signal, transmitting a sequence of different rolling code activation signals until the user indicates a successful rolling code transmission, then storing data representing a rolling code scheme used to generate the successful rolling code transmission (C4, L19-67, C5, L15-39, C6, L5-48, teach rolling code in program mode and transmitting); if the user indicates that the appliance is activated by a fixed code activation signal, using a fixed code word to generate and transmit each of a sequence of different fixed code activation signals until the user indicates a successful fixed code transmission, then storing data representing the fixed code word and a fixed code scheme used to generate the successful fixed code transmission; and in response to an activation input, generating and transmitting an activation signal based on stored data (C6, L49-61, C7, L5-14, C8, L26-40 teach fixed code programming mode and transmitting);

Consider **claim 16**, Farris teaches the method further comprising storing data representing either the rolling code scheme used to generate the successful rolling code transmission or the fixed code word and the fixed code scheme used to generate the successful fixed code transmission associated with one of a plurality of activation inputs (C3, L45-49, C9, L41-60).

Consider **claim 24**, Farris teaches a method of programming a programmable remote control, the remote control programmable to one of a plurality of appliance

activation schemes (C8, L26-40, C9, L32-60, No.151 teach program button), the method comprising: receiving user type input specifying activation signal type; if the user type input specifies variable code type, transmitting variable code activation signals until receiving user success input indicating a target appliance has been activated (C3, L36-45, Fig.2, No.80, Illustrate receiver where transmitting variable code activation signals until receiving); if the user type input specifies fixed code type, receiving user fixed code input providing a fixed code and transmitting fixed code activation signals until receiving user success input indicating the target appliance has been activated; and storing information specifying an activation signal for activating the target appliance based on the received user success input (C9 ,45-60, C10, L29-49, Fig.2, No.88 as storing information and No.84 as activating the target appliance based on the received).

Consider **claim 26**, Farris teaches a method of programming a programmable remote control, the remote control programmable to a fixed code appliance activation scheme(C8, L26-40, C9, L32-60), the method comprising: receiving a fixed code associated with a fixed code appliance; and transmitting at least a first activation signal and a second activation signal, each of the first activation signal and the second activation signal based on the same fixed code activation scheme, each of the first activation signal and the second activation signal based on the received fixed code, the second activation signal based on a binary modification of the received fixed code (C5, L15-39, C6, L49-61).

Consider **claims 27 and 28**, Farris teaches the method wherein the binary

modification is a bitwise reversal of the received fixed code (C5, L15-65).

Consider **claim 29**, Farris teaches a system for wirelessly activating an appliance, the appliance responding to one of a plurality of transmission schemes (C3, L24-49, Fig.1, No.30, No.31, Illustrate appliance controlled by a radio frequency), the system comprising: a radio frequency transmitter (Fig.1, No.30); memory holding data describing the plurality of transmission schemes; and control logic in communication with the transmitter and the memory (Fig.2, No.88 as memory holding data), the control logic operative to (a) store a fixed code (Fig.2, No.84 and description), (b) if a fixed code is stored, transmit a sequence of fixed code activation schemes, based on the fixed code and data held in the memory, until input indicating activation of the appliance is received, (c) if no fixed code is stored, transmit a sequence of rolling code activation schemes, based on data held in the memory, until input indicating activation of the appliance is received, (d) store an indication as to which activation scheme activated the appliance based on the received input indicating activation of the appliance, and (e) generate an activation signal based on the stored indication and a received activation input (C6, L49-61, C7, L6-14, C9, L31-61).

Consider **claim 30**, the system wherein the control logic is further operative to receive the data describing the plurality of transmission schemes and store the received data in the memory (Fig.2, No.80 as receive the data, No.88 as store the received data in the memory).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 571-272-7863. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WILLIAM TROST
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Kiet Doan
Patent Examiner